

## APPENDIX II: China's Missile Technology Exports In The 1980s And 1990s

COUNTRY	TYPE OF ASSISTANCE
<b>IRAN</b>	<ul style="list-style-type: none"> <li>• <b>Ballistic Missiles</b> <ul style="list-style-type: none"> <li>➤ 8610/CSS-8</li> <li>➤ M-9/DF-15 (China cancelled the sale under US pressure)</li> </ul> </li> <li>• <b>Cruise Missiles</b> <ul style="list-style-type: none"> <li>➤ HY-1</li> <li>➤ 100 HY-2 (Silkworm)</li> <li>➤ HY-4/C-201</li> <li>➤ C-601</li> <li>➤ YJ-1/C-801 (sales halted in October 1997)</li> <li>➤ YJ-2/C-802 (sales halted in October 1997)</li> </ul> </li> <li>• <b>Assistance to Iran's Indigenous Missile Programs</b> <ul style="list-style-type: none"> <li>➤ Extensive production assistance for the 8610/CSS-8 missile</li> <li>➤ Extensive production infrastructure for HY-2, C-801 and C-802 missiles (production assistance halted in 1997)</li> <li>➤ Possible assistance to the Shahab-3 ballistic missile</li> <li>➤ FL-10 air-launched cruise missile</li> </ul> </li> <li>• <b>Missile Fuel</b> <ul style="list-style-type: none"> <li>➤ Various propellant ingredients</li> <li>➤ Ammonium perchlorate</li> </ul> </li> <li>• <b>Missile Guidance and Control Technology</b> <ul style="list-style-type: none"> <li>➤ Guidance kits (mid-1990s)</li> <li>➤ Gyroscopes (mid-1990s)</li> <li>➤ Accelerometers (mid-1990s)</li> <li>➤ Test equipment for ballistic missiles (mid-1990s)</li> </ul> </li> </ul>
<b>IRAQ</b>	<ul style="list-style-type: none"> <li>• <b>Cruise Missiles (1980s)</b> <ul style="list-style-type: none"> <li>➤ HY-2 (Silkworm)</li> <li>➤ C-601</li> <li>➤ YJ-1/C-801</li> </ul> </li> <li>• <b>Missile Engine Testing Facility/Project 3209</b> <ul style="list-style-type: none"> <li>➤ Supply of standard parts for liquid propellant engine, late 1980s</li> </ul> </li> <li>• <b>Missile Fuel</b> <ul style="list-style-type: none"> <li>➤ 10 tons of UDMH, late 1980s</li> <li>➤ 7 tons of lithium hydride; 1989-1990; exported by the China Wanbao Engineering Company (CWECC)</li> <li>➤ Ammonium perchlorate, 1994</li> </ul> </li> </ul>
<b>LIBYA</b>	<ul style="list-style-type: none"> <li>• <b>Missile Fuel</b> <ul style="list-style-type: none"> <li>➤ Lithium hydride</li> </ul> </li> </ul>
<b>PAKISTAN</b>	<ul style="list-style-type: none"> <li>• <b>Ballistic Missiles and Launchers</b> <ul style="list-style-type: none"> <li>➤ 34 M-11/DF-11 missiles; stored at Pakistan's Sargodha Air Force Base near Lahore; delivered in November 1992</li> <li>➤ M-11 transporter-erector-launchers (TELs)</li> </ul> </li> <li>• <b>Possible Assistance to Indigenous Missile Programs</b> <ul style="list-style-type: none"> <li>➤ Hatf-1, Hatf-2 and Hatf-3 ballistic missiles</li> </ul> </li> <li>• <b>Missile Fuel</b> <ul style="list-style-type: none"> <li>➤ Ammonium perchlorate, 10 tons seized in Hong Kong in 1996; Pakistan's SUPARCO was caught attempting to import the ammonium perchlorate from a company in Xian, China</li> </ul> </li> </ul>

